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PATENT ABSTRACTS OF JAPAN

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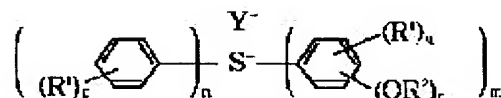
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(54) NEW SULFONIUM SALT AND CHEMICAL AMPLIFICATION POSITIVE-TYPE RESIST MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new sulfonium salt suitable as a component of chemical amplification positive-type resist materials having high resolution ability suitable to fine processing technique.

SOLUTION: This new compound is a sulfonium salt of the formula (R1 is an alkyl, alkoxy or dialkylamino; OR2 is an acid-unstable group; Y is a 1-20C straight-chain, branched or cyclic alkylsulfonate; (n) is an integer of 0-2; (m) is an integer of 1-3, (n+m)=3; (r) is an integer of 1-5; (p) is an integer of 0-5; (q) is an integer of 0-4, (q+r) is an integer of 1-5), e.g. butanesulfonic acid tris(4-tert-butoxyphenyl)sulfonium. This compound of the formula is obtained, for example, by the following process: a t-butoxyphenyl Grignard reagent is prepared from a 3- or 4-halogenated t-butoxybenzene and then reacted with the reaction product obtained by reacting a diaryl sulfoxide with a trialkylsilyl chloride followed by conducting anion exchange.



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